		
PCT	For receiving Office use only	
	International Application No.	
REQUEST		
	International Filing Date	
The undersigned requests that the		
The undersigned requests that the present international application be processed		
according to the Patent Cooperation Treaty.		"PCT International Application"
.:	Applicant's or agent's file re (if desired) (12 characters ma	eference aximum) BH-003-PCT
Box No. I TITLE OF INVENTION		
HELICASE-DEPENDENT AMPLIFICATION (OF CIRCULAR NUCL	EIC ACIDS
Box No. II APPLICANT This person	n is also inventor	
Name and address: (Family name followed by given name; for a legal ent The address must include postal code and name of country. The country of the	he address indicated in this	ohone No.
box is the applicant's state (that is, country) of residence if no State of residen	nce is indicated below.) 9/8-	-927 - 5054
BIOHELIX CORPORATION 32 Tozer Road		mile No.
Beverly, MA 01915		-927-1705 printer No.
US	·	
	Appli	cant's registration No. with the Office
State (that is, country) of nationality:	State (that is, country) of res	idence:
This person is applicant all designated all designated	US	
for the purposes of: States X the United S	ates of America of Ame	ted States the States indicated in the Supplemental Box
Box No. III FURTHER APPLICANT(S) AND/OR (FURT		
Name and address: (Family name followed by given name; for a legal enti- The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence if Norman Kong, Huimin 5 Conrad Circle Wenham, MA 01984	a addraggindingted in this	applicant only applicant and inventor inventor only (If this check-box
US	A	is marked, do not fill in below.)
	Арри	cant's registration No. with the Office
State (that is, country) of nationality: US	State (that is, country) of res	idence:
This person is applicant for the purposes of: all designated the United States		ted States the States indicated in the Supplemental Box
X Further applicants and/or (further) inventors are indicated of		
Box No. IV AGENT OR COMMON REPRESENTATIVE		RESPONDENCE
The person identified below is hereby/has been appointed to act of the applicant(s) before the competent International Authorities	n behalf as: X agent	common representative
Name and address: (Family name followed by given name; for a legal enti-	ty, fullofficial designation. Telep	hone No.
STRIMPEL, Harriet M.		927-5054
New England Biolabs, Inc.		mile No.
32 Tozer Road Beverly, MA 01915		927-1705 rinter No.
US		
	Agent	's registration No. with the Office

Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)			
If none of the following sub-boxes is used, this sheet should not be included in the request.			
Name and address: (Family name followed by given name; for a legal entity, full official designal The address must include postal code and name of country. The country of the address indicated in Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) XU, Yan 24 Tally Ho Drive Hamilton, MA 01982 US	This person is: applicant only X applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office		
State (that is, country) of nationality: CN State (that is, country) US	entry) of residence:		
This person is applicant for the purposes of: all designated lesignated states except the United States of America	the United States of America only the States indicated in the Supplemental Box		
Name and address: (Family name followed by given name; for a legal entity, full official designal The address must include postal code and name of country. The country of the address indicated in the Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office		
	ntry) of residence:		
This person is applicant for the purposes of: all designated all designated States except the United States of America	the United States of America only the States indicated in the Supplemental Box		
Name and address: (Family name followed by given name; for a legal entity, full official designate The address must include postal code and name of country. The country of the address indicated in the Box is the applicant's State (that is, country) of residence if no State of residence is indicated below)	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office		
State (that is, country) of nationality: State (that is, country)	ntry) of residence:		
This person is applicant for the purposes of: all designated all designated States except the United States of America	the United States the States indicated in the Supplemental Box		
Name and address: (Family name followed by given name; for a legal entity, full official designation of the address must include postal code and name of country. The country of the address indicated in the Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office		
State (that is, country) of nationality: State (that is, country)	try) of residence:		
This person is applicant for the purposes of: all designated all designated States except the United States of America	the United States of America only the States indicated in the Supplemental Box		
Further applicants and/or (further) inventors are indicated on another continuati	on sheet.		

2	heet	NIA	3
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BOX No. V DESIGNA	HONS			
The filing of this request co filing date, for the grant of e	nstitutes under Rule 4.9(a), the very kind of protection available	ne designation of all Cont le and, where applicable, f	racting States bound by for the grant of both region	the PCT on the international
However,				parents.
DE Germany is not d	esignated for any kind of natio	nal protection		
KR Republic of Kores	a is not designated for any kind	d of national protection		
RU Russian Federation	n is not designated for any kin	d of national protection		
I me namenat ture, of an earth	be used to exclude (irrevocably er national application from w s in these and certain other Sta	hich priority is claimed ?	ned in order to avoid the See the Notes to Box No.	e ceasing of the effect, under V as to the consequences of
Box No. VI PRIORIT	Y CLAIM	•		
The priority of the following	gearlier application(s) is hereby	y claimed:		···
Filing date of earlier application	Number of english application	V	Where earlier application is:	
(day/month/year)	of earlier application	national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office
item (1) 25 March 2004 (25.03.2004)	60/556,297	US		
item (2)				
	,			·
item (3)				
Further priority claims	are indicated in the Supplemen	tal Box.		•
The receiving Office is reque the earlier application was fi above as:	sted to prepare and transmit to led with the Office which for the	the International Bureau as e purposes of this internat	a certified copy of the ea	rlier application(s) (only if receiving Office) identified
	tem (1) item (2)	1 1 · · · · · · · · · · · · · · · · · ·	other, se	ee Supplemental Box
* Where the earlier applicati Industrial Property or one M	on is an ARIPO application, ind lember of the World Trade Org	licate at least one country pranization for which that e		
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	ATIONAL SEARCHING AUT			
Choice of International Sec international search, indicat ISA /US	erching Authority (ISA) (if two	o or more International Se -letter code may be used):	earching Authorities are	competent to carry out the
	rlier search: reference to that	t saarah <i>(if i</i>		• • • • • • • • • • • • • • • • • • • •
211411			rch has been carried out	by or requested from the
Date (day/month/year)	Numbe	cr Count	гу (or regional Office)	
Box No. VIII DECLAR	RATIONS			
The following declarations check-boxes below and indic	are contained in Boxes Nos. Viate in the right column the num	III (i) to (v) (mark the appl aber of each type of declar	licable ration):	Number of declarations
Box No. VIII (i)	Declaration as to the identity	of the inventor		:
Box No. VIII (ii)	Declaration as to the applican date, to apply for and be grant	t's entitlement, as at the in ted a patent	ternational filing	•
Box No. VIII (iii)				
Box No. VIII (iv) Declaration of inventorship (only for the purposes of the designation of the United States of America)				
Box No. VIII (v)	Declaration as to non-prejudic	cial disclosures or exception	ons to lack of novelty	· :

Box No. IX CHECK LIST; LANGUAGE OF FILING				
This international application contains: (a) in paper form, the following number of sheets:	This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):	Number of items		
request (including	1. The column the number of each tienty.	: 1		
declaration sheets) : 4	2. original separate power of attorney	•		
description (excluding sequence listings and/or	3. X original general power of attorney	: 2		
tables related thereto) : 40	4. copy of general power of attorney; reference number,			
claims : 5	if any:	• • • • •		
abstract : 1	5. statement explaining lack of signature	:		
drawings : 9	6. priority document(s) identified in Box No. VI as item(s):	•		
Sub-total number of sheets: 59 sequence listings: 2	7. translation of international application into (language):			
tables related thereto: (for both, actual number of	8. separate indications concerning deposited microorganism or other biological material			
sheets if filed in paper form, whether or not also filed in computer readable form;	9. sequence listings in computer readable form (indicate type and number of carriers)	·		
see (c) below)	(i) \(\overline{\text{X}} \) copy submitted for the purposes of international search	h under		
Total number of sheets : 61	Rule 13ter only (and not as part of the international ap (ii) (only where check-box (b)(i) or (c)(i) is marked in left			
(b) only in computer readable form (Section 801(a)(i))	purposes of international search under Rule 13ter	y for the :		
(i) sequence listings (ii) tables related thereto	(iii) X together with relevant statement as to the identity of the copies with the sequence listings mentioned in left col	ne copy or umn : 1		
(c) also in computer readable form (Section 801(a)(ii))	10. tables in computer readable form related to sequence listin (indicate type and number of carriers)	•		
(i) sequence listings (ii) tables related thereto	(i) copy submitted for the purposes of international search Section 802(b-quater) only (and not as part of the internation)	h under rnational		
Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are	application) (ii) (only where check-box (b)(ii) or (c)(ii) is marked in legardational copies including, where applicable, the cop	: ft column) v for the		
contained the sequence listings:	purposes of international search under Section 802(b-quater) : (iii) together with relevant statement as to the identity of the copy or			
additional conjects be indicated.	copies with the tables mentioned in left column	•		
(additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)	11. X other (specify): \$2,934 check; return pos	tcard :2		
Figure of the drawings which should accompany the abstract: 1b	Language of filing of the international application: English			
Box No. X SIGNATURE OF APPLICAN Next to each signature, indicate the name of the person sign	T ACENT OF COMMON DEPRESENTATION			
· · · · · · · · · · · · · · · · · · ·	ing and the capacity in which the person signs (if such capacity is not obvious from	reading the request).		
Hamet Thumpa				
Harriet M. Strimpel, D.Phil., Agent				
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1 Date of catual access of Cal	— For receiving Office use only ————————————————————————————————————			
 Date of actual receipt of the purported international application: 	2	2. Drawings:		
receive		received:		
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:				
4. Date of timely receipt of the required corrections under PCT Article 11(2):		not received:		
5. International Searching Authority (if two or more are competent): ISA /	6. Transmittal of search copy delayed until search fee is paid			
For International Bureau use only				
Date of receipt of the record copy by the International Bureau:				
Form PCT/PO/101/1				